WHAT IS CLAIMED IS:

- 1. A method of treating a painful episode due to a sickle cell disease in a patient in need of such treatment, which method comprises administering to the patient a buprenorphine transdermal system (BTDS).
 - 2. The method of claim 1, comprising administering BTDS 5 within two days after the onset of the painful episode.
- 10 3. The method of claim 1, wherein the administering of the BTDS results in a reduction of the pain experienced by the patient by at least 1 point on an 11 point pain scale.
 - 4. A method of treating a painful episode due to a sickle cell disease in a patient in need of such treatment, which method comprises:
- administering to the patient a first buprenorphine-containing transdermal dosage form for a first dosing period;

administering to the patient a second buprenorphine-containing transdermal dosage form for a second dosing period, wherein the second dosage form comprises the same dosage of buprenorphine as, or a greater dosage of buprenorphine than, the first dosage form; and

administering to the patient a third buprenorphine-containing transdermal dosage form for a third dosing period, wherein the third dosage form comprises a greater dosage of buprenorphine than the second dosage form.

- 5. The method of claim 4, further comprising extended subsequent dosing periods with subsequent dosage forms for a given time period as needed by the patient to achieve desired analgesia.
 - 6. The method of claim 4, wherein the first dosing period is at least 2 days.

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- 7. The method of claim 4, wherein the second dosing period is at least 2 days.
 - 8. The method of claim 4, wherein the third dosing period is at least 5 days.

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- 9. The method of claim 4, wherein the first dosage form comprises 5 mg of buprenorphine.
- 10. The method of claim 4, wherein the second dosage form comprises 10 mg of buprenorphine.
 - 11. The method of claim 4, wherein the third dosage form comprises 20mg of buprenorphine.
- 15 12. The method of claim 4, wherein the third dosage form comprises 30mg of buprenorphine.
 - 13. The method of claim 4, wherein the third dosage form comprises 40mg of buprenorphine.

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14. A method of treating a painful episode due to sickle cell anemia in a patient in need of such treatment, which method comprises:

administering to the patient BTDS 5 for 3 days; administering to the patient BTDS 10 for 3 days; and administering to the patient BTDS 20 for 7 days.

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15. The method of claim 14, further comprising extended subsequent dosing periods with subsequent BTDS 20 dosage forms for a given time period as needed by the patient to achieve desired analgesia

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16. A method of treating a painful episode due to sickle cell anemia in a patient in need of such treatment, which method comprises administering to the patient BTDS 10 for 7 days with subsequent BTDS 20 dosage forms for a given time period as needed by the patient to achieve desired analgesia.

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- 17. The method of claim 1, wherein the patient is a child.
- 18. The method of claim 1, wherein the patient is an adult.

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anemia.

19. The method of claim 1, wherein the sickle cell disease is sickle cell

20. The method of claim 1, wherein the sickle cell disease is hemoglobin SC disease or hemoglobin S- β -thalassemia.

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21. The method of claim 1, wherein the transdermal dosage form is selected form the group consisting of transdermal dosage article and transdermal dosage composition.

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22. The method of claim 21, wherein the transdermal dosage article is a diffusion-driven transdermal system.

23. The method of claim 21, wherein the transdermal dosage composition is selected from the group consisting of a topical gel, a lotion, an ointment, a transmucosal system, a transmucosal device, and an iontophoretic delivery system.

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24. A method of treating a painful episode due to sickle cell anemia in a patient in need of such treatment, which method comprises

administering intravenously to the patient an effective amount of opioid for an initial part of the painful episode; and

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administering to the patient at least one BTDS for the remainder of the painful episode, while reducing the amount of the opioid administered intravenously.

- 25. The method of claim 24, wherein the initial part is no more than 3 days.
- 26. The method of claim 24, wherein the at least one BTDS is a BTDS 5.

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- 27. The method of claim 24, wherein the at least one BTDS comprises a BTDS 5 for 3 days; a BTDS 10 for 3 days; and a BTDS 20 for 7 days.
- 28. The method of claim 24, wherein the opioid is a member of the group consisting of buprenorphine, morphine, hydromorphone, oxycodon, tramadol, oxymorphone, dihydrocodein, and hydrocodon.